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2-Stage conversion of synthesis gas to olefin(s) and aromatics - useful in

gasoline, via intermediate prodn. of mixed higher alcohol(s)

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Patent Family Patent Number Kind Date Application Number Kind Date Week

Type

DE 3113838 A 19820107 198202B

JP 56159286 A 19811208 198203

ZA 8102157 A 19820308 198221

CA 1155463 A 19831018 198346

Priority Applications (Number Kind Date): GB 8012103 A (19800411)

Patent Details Patent Kind Language Page Main IPC Filing Notes

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Abstract:

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Prepn. of unsatd. and/or aromatic hydrocarbons comprises: (a) prepn. and

purificn. of synthesis gas (CO+H₂ etc.) via steam reforming or partial oxidn.;

(b) conversion of synthesis gas to alcohols higher than methanol; and (c)

conversion of part or all of the prod. from (b) to unsaturates and aromatics.

The catalyst for (b) contains (i) oxides of Cr and Zn; (ii) the oxide of at

least one other metal, M, pref. Mn, whose divalent oxide is difficult to reduce

to metal and is more basic than ZnO; and (iii) an alkali metal cpd. The catalyst

for (c) is an oxide-contg. ion exchanger, with lattice openings permitting entry

of mols. of 5-7 A.U. dia.; pref., it is a zeolite of the ZSM 5 family.

Used for mfr. of chemical intermediates and gasoline components from natural

gas, coal, heavy oil, etc.. The octane number of the prod. from (c) appeared

higher than when methanol was fed.

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Dialog® File Number 351 Accession Number 3444481